

CLAIM AMENDMENTS:

1-14. (canceled).

15. (currently amended) A communication device of a construction machine for communicating between the construction machine and a terminal device, which comprises:

a communication device, which enables communications with said terminal device when an electrical connection to a power source is ON, and location detecting means for detecting the location of said construction machine are provided in said construction machine; and

means for periodically turning ON and OFF an electrical connection between said power source and said communication device when the engine of said construction machine is stopped, is provided in said construction machine; ~~and~~

~~a time at which the electrical connection between said power source and said communication device is turned ON is increased when the location of said construction machine detected by said location detecting means strays from a normal location or approaches an abnormal area~~ communication processing being performed when the electrical connection is turned ON.

16. (currently amended) A communication device of a construction machine for communicating between the construction machine and a terminal device, which comprises:

a communication device, which enables communications with said terminal device when an electrical connection to a power source is ON, and travel speed computing means for computing a travel speed of said construction machine are provided in said construction machine;

means for periodically turning ON and OFF the electrical connection between said power source and said communication device when the engine of said construction machine is stopped, is provided in said construction machine; and

~~a time at which the electrical connection between said power source and said communication device is turned ON is increased when the travel speed of said construction machine computed by said travel speed computing means increases~~ communication processing being performed when the electrical connection is turned ON.

17. (cancelled)

18. (currently amended) A communication device of a ~~mobile unit~~ construction machine constituted such that a ~~mobile unit~~ construction

machine and a terminal device are connected by communication means enabling mutual transmission and reception, and, in accordance with an input operation performed at said terminal device of requesting ~~mobile-unit~~ construction machine information related to the ~~mobile-unit~~ construction machine, a content of a request is sent to the ~~mobile-unit~~ construction machine, and the ~~mobile-unit~~ construction machine, which receives the request content, acquires, via ~~a mobile-unit~~ the construction machine, ~~mobile-unit~~ construction machine information corresponding to the request content and sends the acquired ~~mobile-unit~~ construction machine information to said terminal device, which comprises:

detecting means for detecting a fact that an engine of said ~~mobile-unit~~ construction machine has been started being provided in said ~~mobile-unit~~ construction machine, and when said detecting means detects that said engine is started within a predetermined time zone, the specified ~~mobile-unit~~ construction machine information is sent to said terminal device from said ~~mobile-unit~~ construction machine.

19. (currently amended) A communication device of a ~~mobile-and~~ unit construction machine constituted such that a ~~mobile-unit~~ construction machine and a terminal device are connected by communication means enabling mutual transmission and reception, and, in accordance with an input

operation performed at said terminal device of requesting ~~mobile-unit~~
construction machine information related to the ~~mobile-unit~~ construction
machine, a content of a request is sent to the ~~mobile-unit~~ construction
machine, and the ~~mobile-unit~~ construction machine, which receives the
request content, acquires, via a ~~mobile-unit~~ the construction machine, ~~mobile~~
~~unit~~ construction machine information corresponding to the request content
and sends the acquired ~~mobile-unit~~ construction machine information to said
terminal device, which comprises:

totaling means for totaling engine operating hours of said mobile unit
being provided in said ~~mobile-unit~~ construction machine, and when a
cumulative value of said engine operating hours totaled by said totaling means
either reaches a specified value, or increases by a specified quantity, the
specified ~~mobile-unit~~ construction machine information is sent to said terminal
device from said ~~mobile-unit~~ construction machine.

20. (currently amended) A communication device of a construction
machine constituted such that a construction machine and a terminal device
are connected by communication means enabling mutual transmission and
reception, and, in accordance with an input operation performed at said
terminal device of requesting construction machine information related to the
construction machine, a content of a request is sent to the construction

machine, and the construction machine, which receives the request content, acquires, via a construction machine, construction machine information corresponding to the request content and sends the acquired construction machine information to said terminal device, which comprises:

detecting means for detecting a location of said construction machine being provided in said construction machine, and when the location detected by said detecting means ~~changes~~ moves outside a predetermined area or inside of a predetermined area, the construction machine information is sent to said terminal device from said construction machine.

21. (currently amended) A communication device of a ~~mobile-unit~~ construction machine constituted such that a ~~mobile-unit~~ construction machine and a terminal device are connected by communication means enabling mutual transmission and reception, and, in accordance with an input operation performed at said terminal device of requesting ~~mobile-unit~~ construction machine information related to the ~~mobile-unit~~ construction machine, a content of a request is sent to the ~~mobile-unit~~ construction machine, and the ~~mobile-unit~~ construction machine, which receives the request content, acquires, via a ~~mobile-unit~~ the construction machine, ~~mobile-unit~~ construction machine information corresponding to the request content

and sends the acquired ~~mobile-unit~~ construction machine information to said terminal device, which comprises:

detecting means for detecting a relative location of said ~~mobile-unit~~ construction machine in relation to a set range being provided in said ~~mobile-unit~~ construction machine, and when the relative location of said ~~mobile-unit~~ construction machine in relation to the set range constitutes a specified relative location, the specified ~~mobile-unit~~ construction machine information is sent to said terminal device from said ~~mobile-unit~~ construction machine.

22. (previously presented) A communication device of a construction machine constituted such that a construction machine and a terminal device are connected by communication means enabling mutual transmission and reception, and, in accordance with an input operation performed at said terminal device of requesting construction machine information related to the construction machine, a content of a request is sent to the construction machine, and the construction machine, which receives the request content, acquires, via a construction machine, construction machine information corresponding to the request content and sends the acquired construction machine information to said terminal device, which comprises:

detecting means for detecting a drop in voltage of a power source mounted to said construction machine is provided in said construction

machine, and when the voltage of said power source detected by said detecting means drops below a specified value, the construction machine information is sent to said terminal device from said construction machine.

23. (previously presented) A communication device of a construction machine constituted such that a construction machine and a terminal device are connected by communication means enabling mutual transmission and reception, and, in accordance with an input operation performed at said terminal device of requesting construction machine information related to the construction machine, a content of a request is sent to the construction machine, and the construction machine, which receives the request content, acquires, via a construction machine, construction machine information corresponding to the request content and sends the acquired construction machine information to said terminal device, which comprises:

detecting means for detecting a location of said construction machine is provided in said construction machine, and

the location information of said construction machine is sent to said terminal device from said construction machine when a content of construction machine-related data to be sent this time differs from a content of construction machine-related data sent at a previous time.

24. (canceled)

25. (previously presented) A communication device of a construction machine for communicating between a plurality of construction machines and a terminal device, which comprises:

one or more business offices at/from which said plurality of construction machines are stored/dispatched, and one or more work sites at which said plurality of construction machines are operated, are established;

location detecting means for detecting a location of said construction machine is provided in each construction machine;

based on the detection result of said location detecting means and location data for said business office and work site, when said construction machine enters said business office or work site, data stating that this construction machine has entered this business office or work site is sent to said terminal device from this construction machine, and when said construction machine exits from said business office or work site, data stating that this construction machine has exited this business office or work site is sent to said terminal device from this construction machine; and,

based on said sent data, data on the entry/exit of said plurality of construction machines to/from said business office or work site is managed by said terminal device.

26. (previously presented) The communication device of a construction machine according to Claim 25, wherein, when said construction machine exits from said business office or work site, location data is sent to said terminal device from said construction machine each time said construction machine moves a predetermined distance, and, based on said sent location data, data on a movement history of said construction machine is managed by said terminal device.

27. (previously presented) A communication device of a mobile unit for communicating between a terminal device and a plurality of operational mobile units for operating at one or more operating areas, which comprises:

 a transportation mobile unit for transporting said plurality of operational mobile units is provided;

 one or more storage and dispatch areas, at/from which said plurality of operational mobile units are stored/dispatched, are established, and, in addition, one or more operating areas, where said plurality of operational mobile units are operated, are established;

 location detecting means for detecting locations of said plurality of operational mobile units is provided in each of said plurality of operational mobile units;

based on the detection results of said location detecting means and location data of said one or more operating areas, data as to whether or not said operational mobile unit is at said operating area is sent to said terminal device from this operational mobile unit;

based on the detection results of said location detecting means and location data of said one or more storage and dispatch areas, when said operational mobile unit enters said storage and dispatch area, data to the effect that this operational mobile unit has entered this storage and dispatch area is sent to said terminal device from this operational mobile unit;

when said operational mobile unit exits from said storage and dispatch area, data to the effect that this operational mobile unit exited from this storage and dispatch area is sent to said terminal device from this operational mobile unit;

based on said sent data, data as to whether said plurality of operational mobile units are either being stored at or have been dispatched from said one or more storage and dispatch areas, and data as to whether or not said plurality of operational mobile units are at said one or more operating areas are managed by said terminal device; and

based on said managed data, said terminal device issues instructions to said transportation mobile unit to transport said operational mobile unit from said

operating area to said storage and dispatch area, or to transport said operational mobile unit from said storage and dispatch area to said operating area.

28. (previously presented) A communication device of a mobile unit for communicating between a terminal device and a plurality of operational mobile units for operating within one or more operating areas, which comprises:

 a transportation mobile unit for transporting said plurality of operational mobile units is provided;

 one or more storage and dispatch areas, at/from which said plurality of operational mobile units are stored/dispatched, are established, and, in addition, one or more operating areas, where said plurality of operational mobile units are operated, are established;

 location detecting means for detecting locations of said plurality of operational mobile units is provided in each of said plurality of operational mobile units;

 based on the detection results of said location detecting means, location data of said one or more storage and dispatch areas, and location data of said one or more operating areas, when said operational mobile unit enters either said storage and dispatch area, or said operating area, data to the effect that this operational mobile unit entered this area is sent to said terminal device

from this operational mobile unit, and when said operational mobile unit exits from either said storage and dispatch area, or said operating area, data to the effect that this operational mobile unit has exited from this area is sent to said terminal device from this operational mobile unit;

based on said sent data, data as to whether said plurality of operational mobile units are either being stored at or have been dispatched from said one or plurality of storage and dispatch areas, and data as to whether or not said plurality of operational mobile units are at said either one or plurality of operating areas are managed by said terminal device; and

based on said managed data, said terminal device issues instructions to said transportation mobile unit to either transport said operational mobile unit from said operating area to said storage and dispatch area, or to transport said operational mobile unit from said storage and dispatch area to said operating area.

29. (canceled)

30. (currently amended) A communication device of a construction machine for communicating between a plurality of construction machines and a terminal device, which comprises:

a communication device enabling communications with said terminal device when an electrical connection to a power source is turned ON is provided in said plurality of construction machines,

means for periodically turning ON and OFF at a predetermined period the electrical connection between said power source and said communication device when an engine of its own construction machine is stopped, is provided in said plurality of construction machines, and

each of said plurality of construction machines changes said period in accordance with change data sent to said construction machine from said terminal device.

31. (new) The communication device at a construction machine according to Claim 15, wherein a period of time during which said means for periodically turning ON and OFF is turned ON is a minimum time necessary for performing a communication processing.

32. (new) The communication device at a construction machine according to Claim 15, wherein a time in which said means for periodically turning ON and OFF is turned OFF becomes shorter as the location of said construction machine detected by said location means strays from a specific area or approaches a specific area.

33. (new) The communication device at a construction machine according to Claim 15, wherein a period for said turning ON and OFF is set arbitrarily.

34. (new) The communication device at a construction machine according to Claim 16, wherein a period of time during which said means for periodically turning ON and OFF is turned ON is a minimum time necessary for performing a communication processing.

35. (new) The communication device of a construction machine according to Claim 16, further comprising location detecting means, wherein a time in which said means for periodically turning ON and OFF is turned OFF becomes shorter as a travel speed detected by the location detecting means becomes faster.

36. (new) The communication device at a construction machine according to Claim 16, wherein a period for said turning ON and OFF is set arbitrarily.

37. (new) A communication device of a construction machine for

communicating between the construction machine and a terminal device,
wherein

a communication device, which enables communications with said terminal device when an electrical connection to a power source is ON, location detecting means for detecting the location of said construction machine, and state detecting means for detecting a state of said construction machine are provided in said construction machine; and

means for periodically turning ON and OFF an electrical connection between said power source and said communication device when the engine of said construction machine is stopped, is provided in said construction machine, and

communication processing or detecting the state of the construction machine being performed when the electrical connection is turned ON.

38. (new) A communication device of a construction machine constituted such that a construction machine and a terminal device are connected by communication means enabling mutual transmission and reception, and, in accordance with an input operation performed at said terminal device requesting construction machine information related to the construction machine, a content of a request is sent to the construction machine, and the construction machine, which receives the request content,

acquires, via the construction machine, construction machine information corresponding to the request content and sends the acquired construction machine information to said terminal device, wherein:

detecting means for detecting a drop in voltage of a power source mounted to said construction machine is provided in said construction machine; and means for periodically turning ON and OFF an electrical connection between said power source and said communication device when the engine of said construction machine is stopped, is provided in said construction machine, and when the voltage of said power source detected by said detecting means drops below a specified value, a time in which said means for periodically turning ON and OFF is turned OFF becomes longer.